

Fig. 1

Impact of TiN cap on B-doped NiSi gate

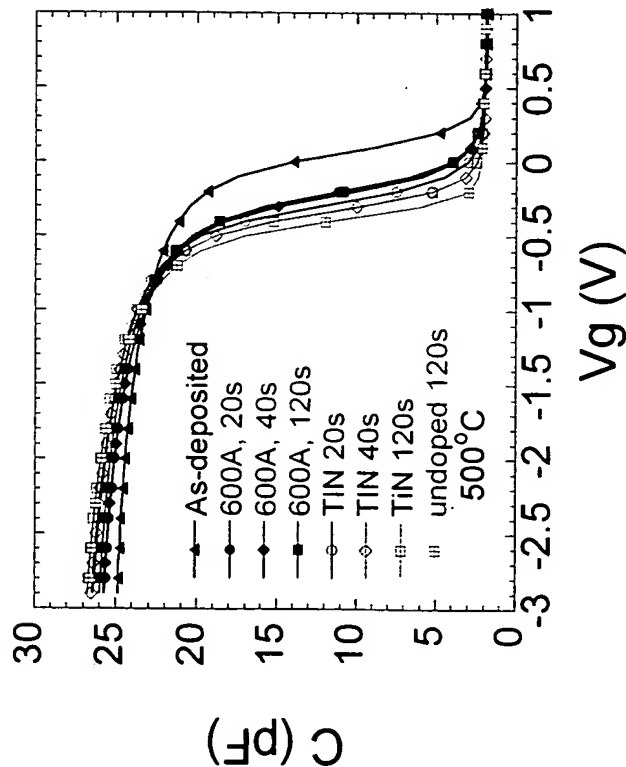


Fig. 2A

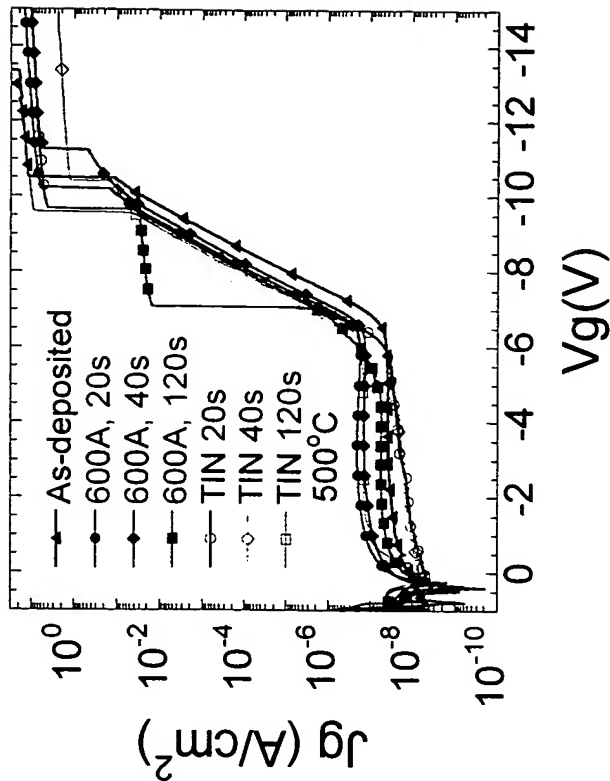


FIG. 2B

Impact of TiN cap on As-doped NiSi gate

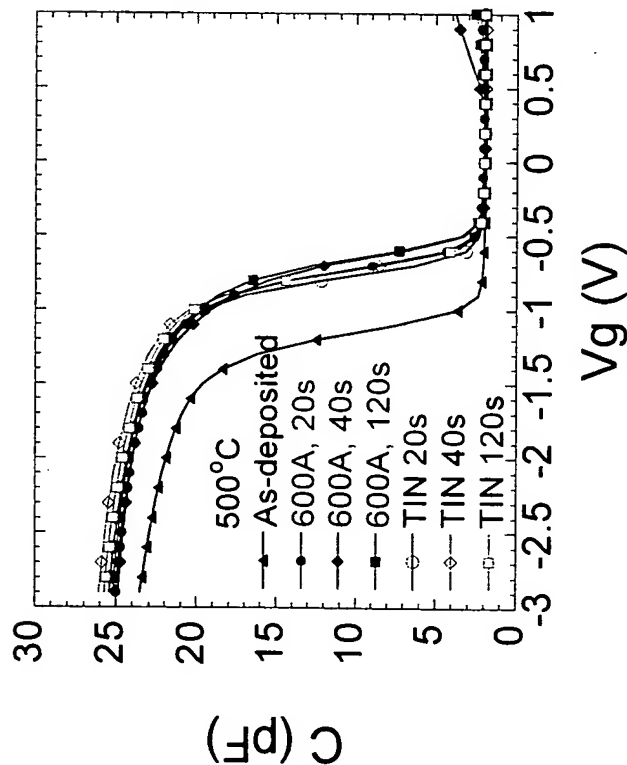


FIG. 3A

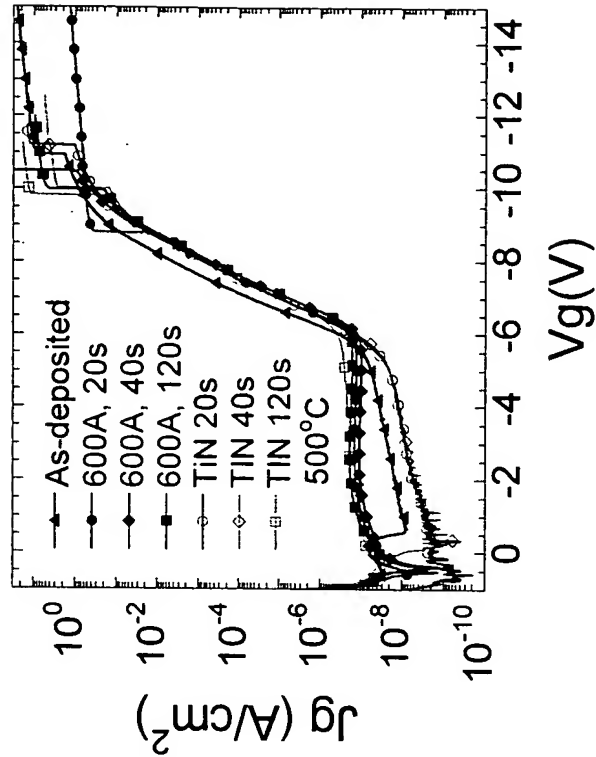


FIG. 3B

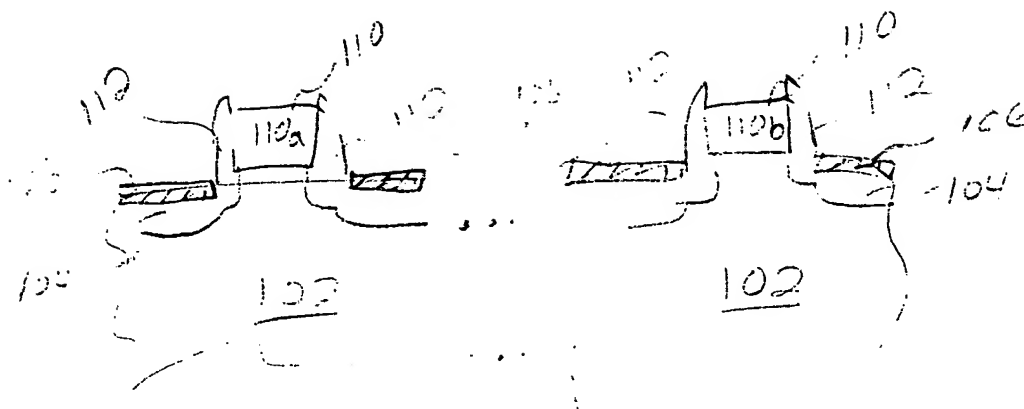


FIG. 4A

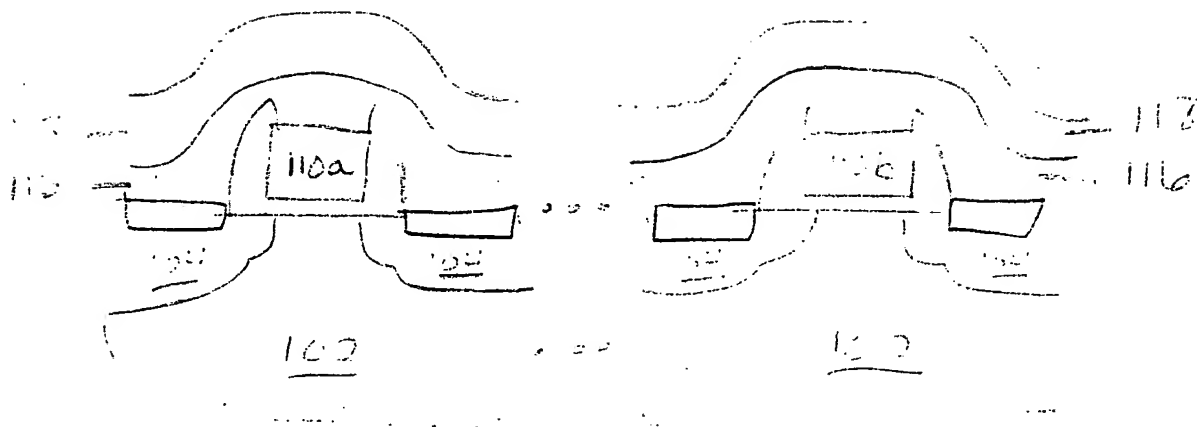


FIG. 4B

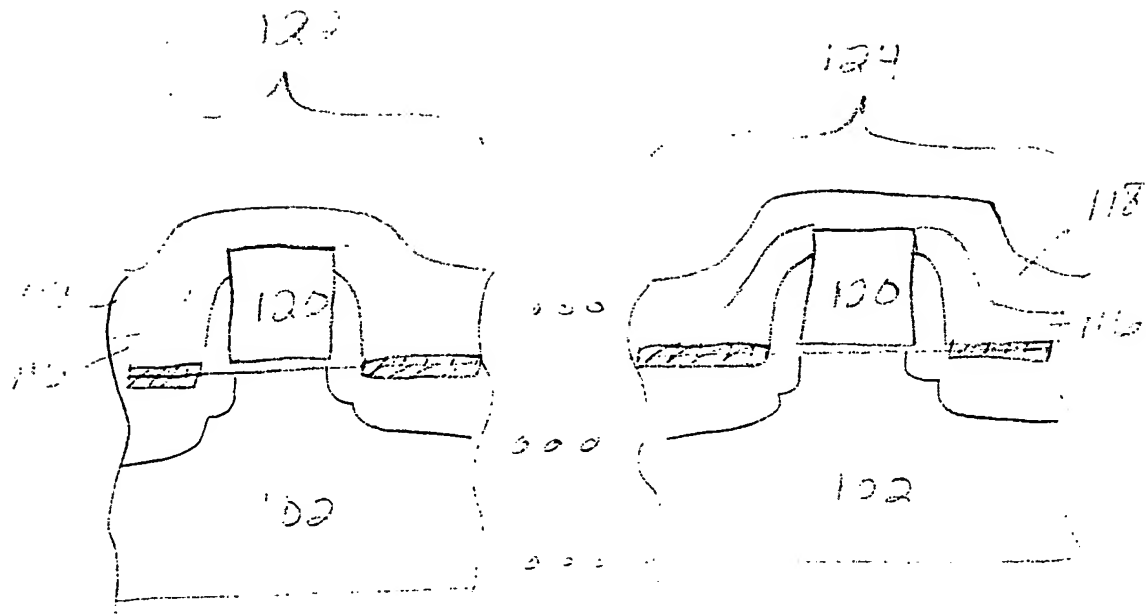


FIG. 4C

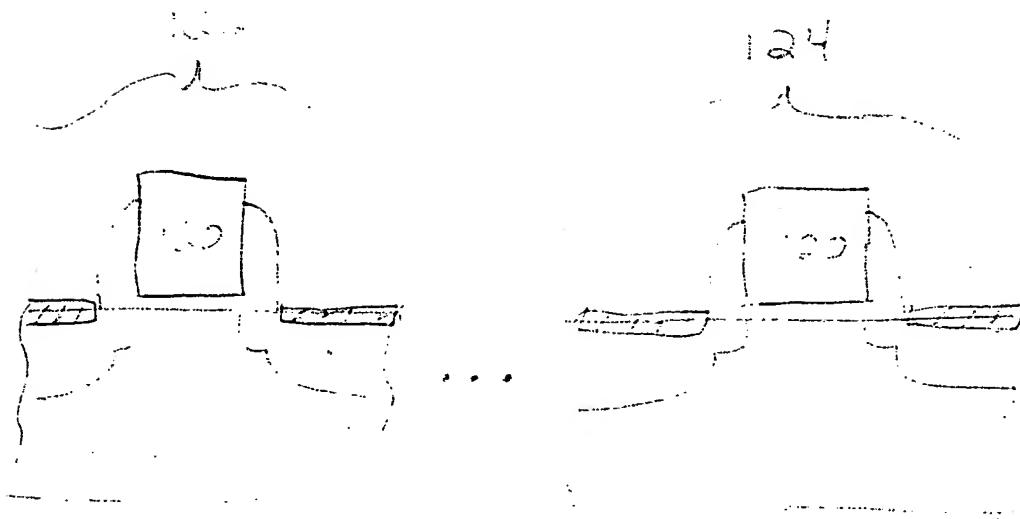


FIG. 4D

TI-36196: Improving NiSi Metal Gate Stacks Using a Sacrificial Cap

Impact of TiN cap on B distribution

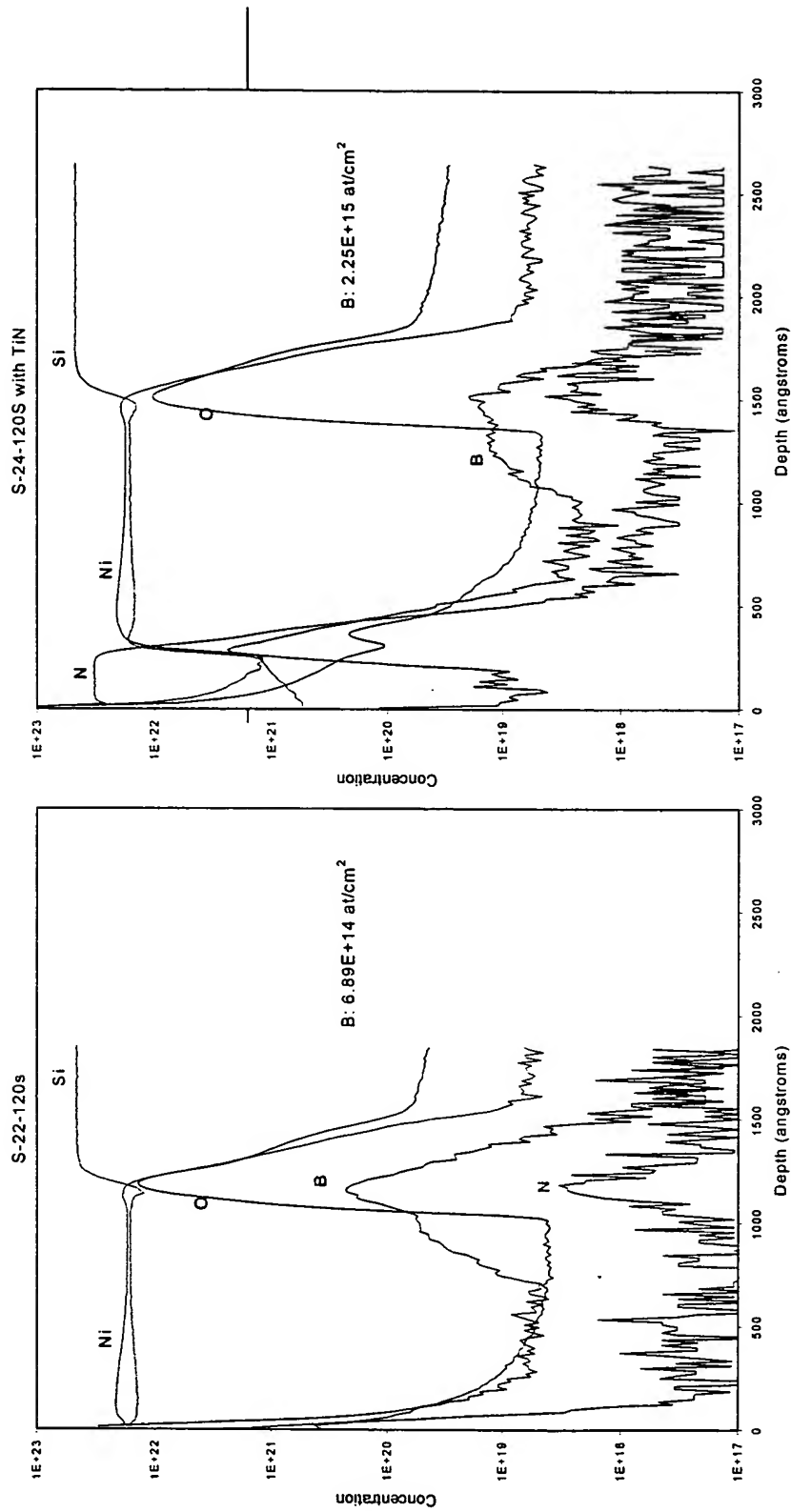


FIG 5A - No TiN cap

FIG. 5B With TiN cap

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Impact of TiN cap on As distribution

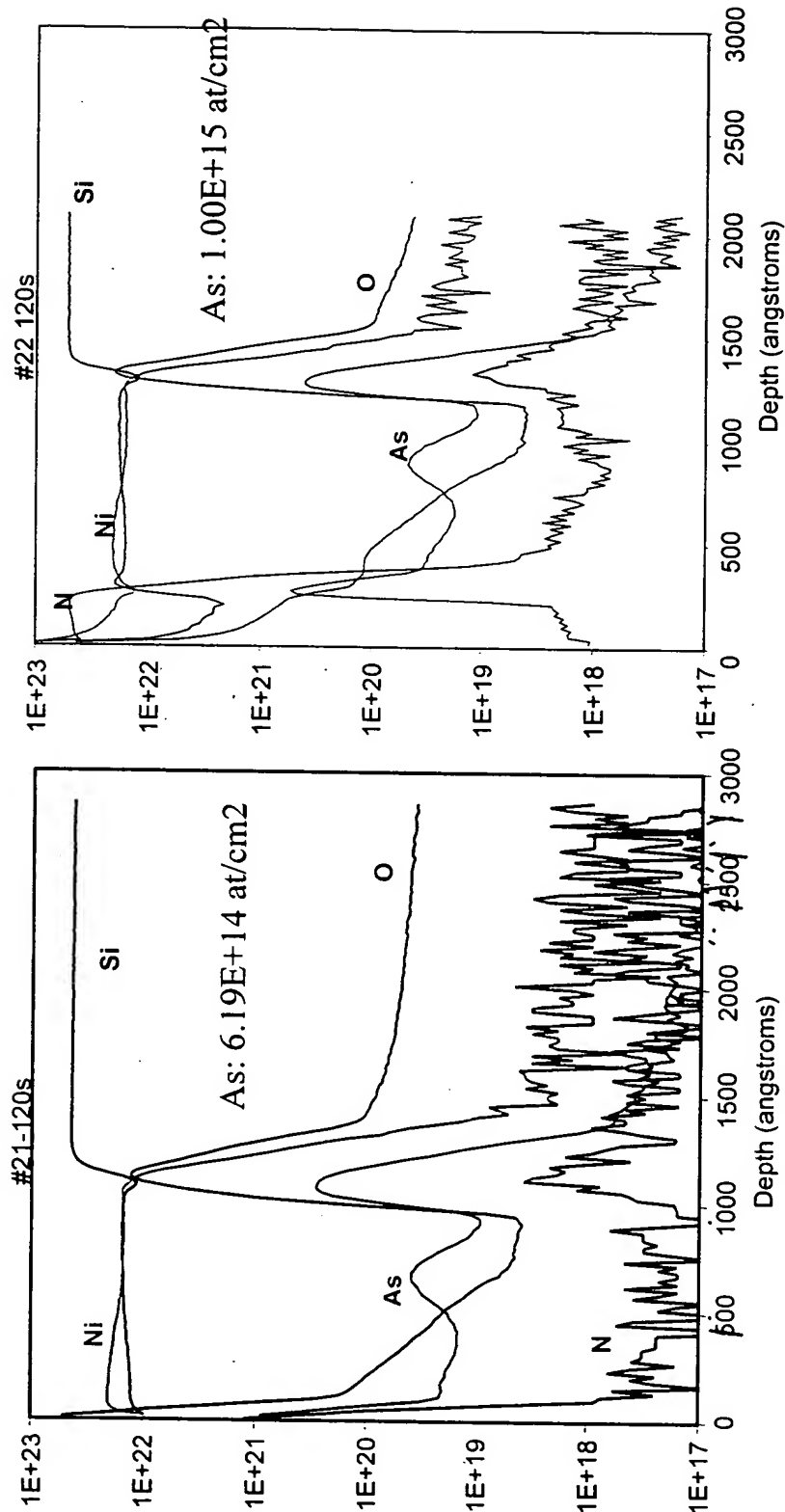


FIG. 6A No TiN cap

FIG. 6B With TiN cap